



TECHNOLOGY DRIVEN. WARFIGHTER FOCUSED.

Tank Automotive Research, Development and Engineering Command (TARDEC) Overview

Report Documentation Page				Form Approved OMB No. 0704-0188	
Public reporting burden for the collection of information is estimated to average 1 hour per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington VA 22202-4302. Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to a penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number.					
1. REPORT DATE 06 MAY 2008		2. REPORT TYPE N/A		3. DATES COVERED -	
4. TITLE AND SUBTITLE TARDEC Overview				5a. CONTRACT NUMBER	
				5b. GRANT NUMBER	
				5c. PROGRAM ELEMENT NUMBER	
6. AUTHOR(S) LTC Andres Contreras				5d. PROJECT NUMBER	
				5e. TASK NUMBER	
				5f. WORK UNIT NUMBER	
7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES) US Army RDECOM-TARDEC 6501 E 11 Mile Rd Warren, MI 48397-5000				8. PERFORMING ORGANIZATION REPORT NUMBER 18861	
9. SPONSORING/MONITORING AGENCY NAME(S) AND ADDRESS(ES)				10. SPONSOR/MONITOR'S ACRONYM(S) TACOM/TARDEC	
				11. SPONSOR/MONITOR'S REPORT NUMBER(S) 18861	
12. DISTRIBUTION/AVAILABILITY STATEMENT Approved for public release, distribution unlimited					
13. SUPPLEMENTARY NOTES The original document contains color images.					
14. ABSTRACT					
15. SUBJECT TERMS					
16. SECURITY CLASSIFICATION OF:			17. LIMITATION OF ABSTRACT SAR	18. NUMBER OF PAGES 10	19a. NAME OF RESPONSIBLE PERSON
a. REPORT unclassified	b. ABSTRACT unclassified	c. THIS PAGE unclassified			

- Purpose
- Mission and Vision
- Organization
- Organizational Relationships
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- Summary



To provide an introduction to the U.S. Army Tank Automotive Research, Development and Engineering Center's **(TARDEC)** programs, capabilities and facilities.



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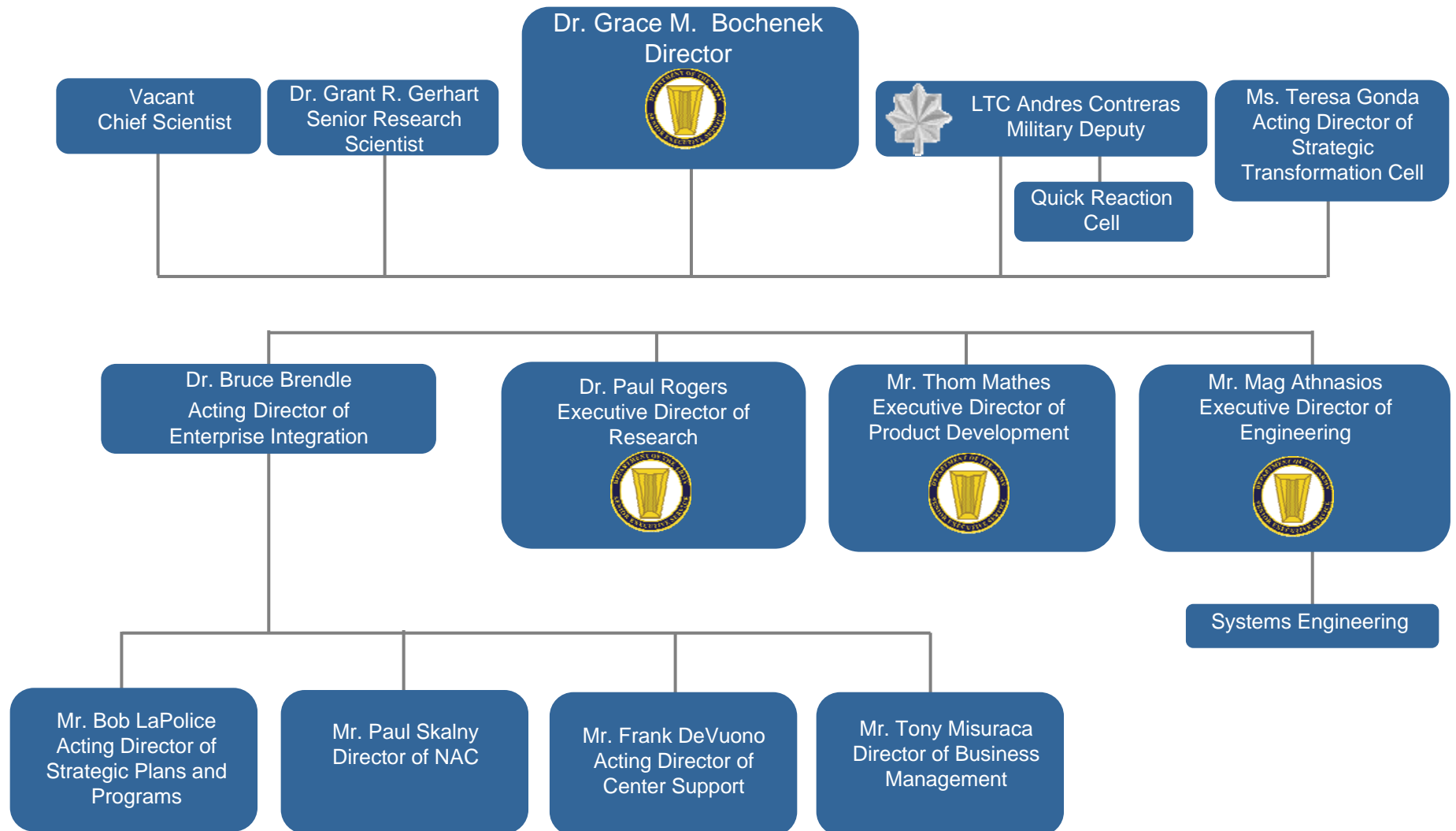
Tank Automotive Research, Development & Engineering Center (TARDEC)



MISSION: TARDEC is a major element of RDECOM and partner in the TACOM Life Cycle Management Command. As a full life-cycle engineering support provider-of-first-choice for all DoD ground combat and combat support weapons and vehicle systems, TARDEC develops and integrates the right technology solutions to improve Current Force effectiveness and provide superior capabilities for the Future Force.

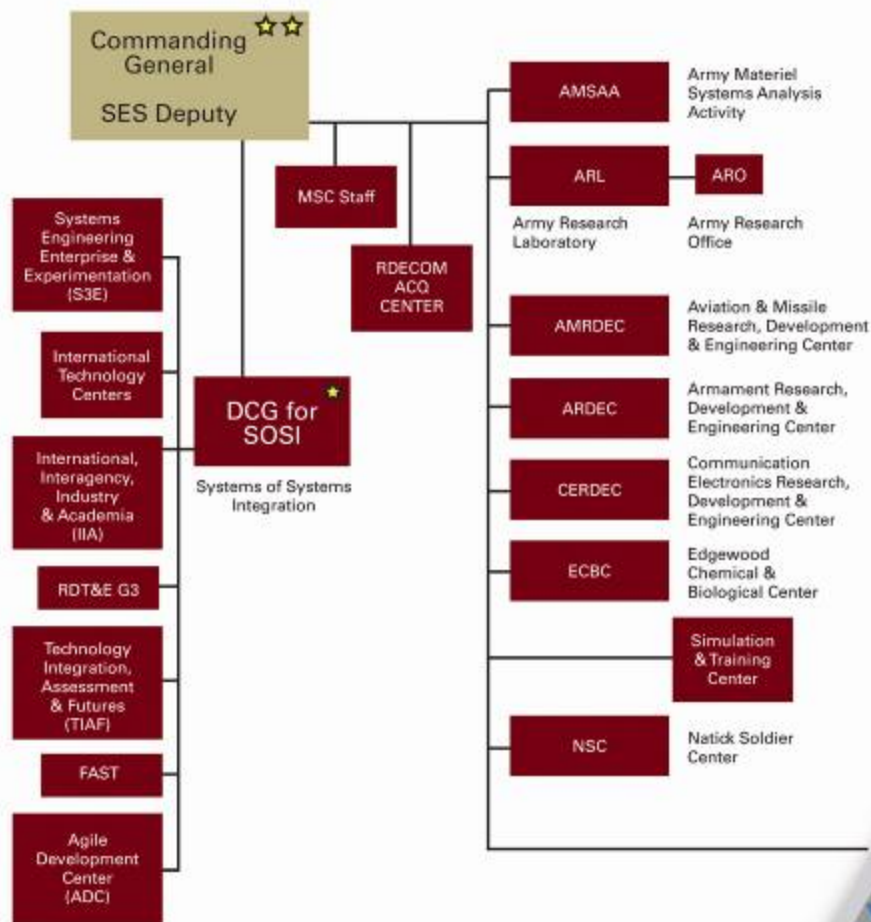
VISION: Be the first choice of technology and engineering expertise for ground vehicle systems and support equipment — today and tomorrow.

TARDEC - Responsible for Research, Development and Engineering Support to **2,800** Army systems and many of the Army's and DOD's top joint warfighter development programs.

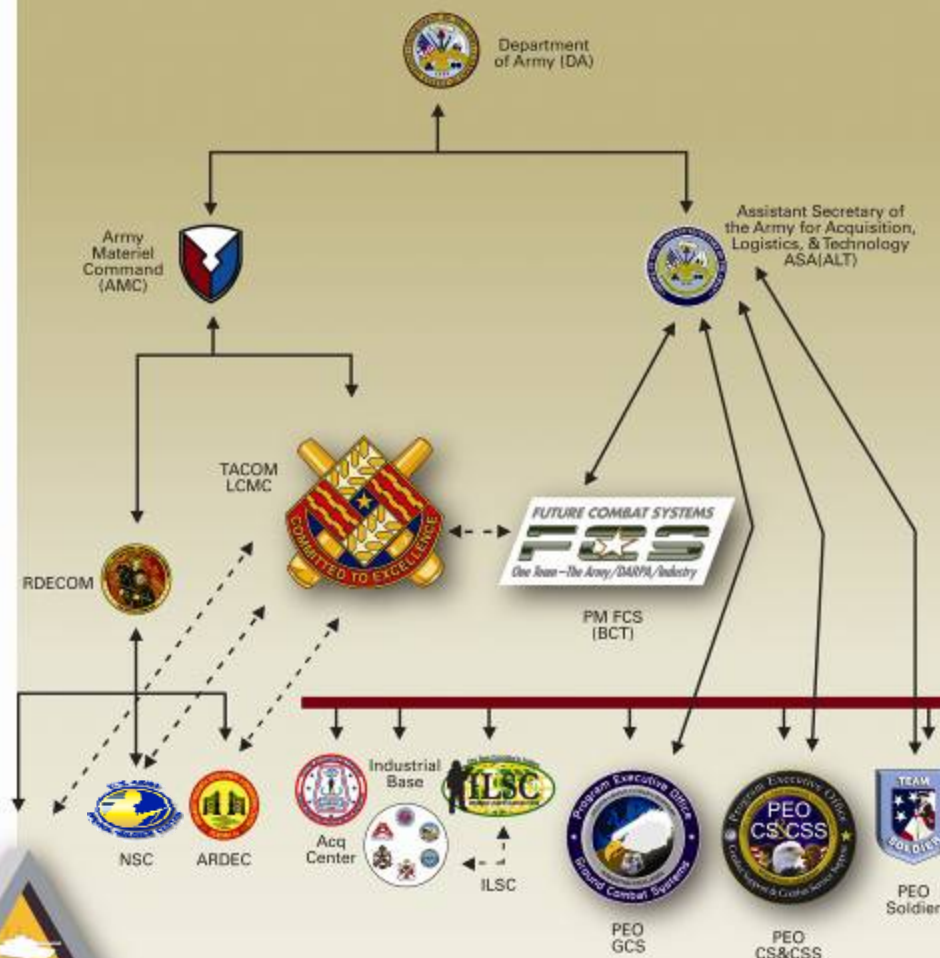




Organizational Relationships



Research, Development and Engineering Command



TACOM LCMC Enterprise

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TARDEC is located in Warren, MI

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TARDEC Technology Focus Areas



Ground Vehicle Power & Mobility

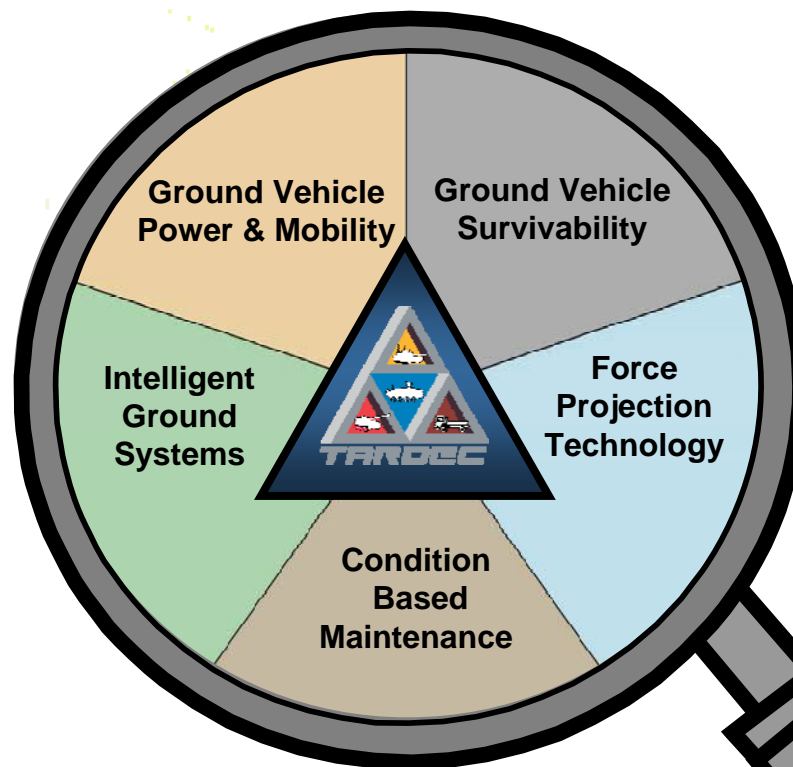
- Hybrid Electric
- Pulse Power
- Engines
- Fuel Cells
- Suspension
- Tracks

Intelligent Ground Systems

- Robotic Systems Technology
- Human-Robot Interaction
- Crew Interface and Automation
- Robotic Follower ATD
- ARV Robotic Technologies Program

Condition Based Maintenance

- Water Generation & Purification
- Petroleum, Oils & Lubricants
- Mechanical Countermine
- Combat Engineering/Bridging
- Gap Crossing
- Future Truck Systems



Ground Vehicle Survivability

- Active Defense
- Signature Management
- Laser Vision Protection
- Ballistic Protection

Force Projection Technology

- Diagnostics/Prognostics
- Data Analytics
- Sensor Integration
- Network Architectures
- Predictive Maintenance

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- High Performance Computing
- Propulsion Laboratory (Air Flow, Battery Testing)
- Power & Energy Systems Integration Lab
- Future Combat Systems Structural Material Development and Testing
- Water Quality and Water Test Cell Laboratories
- Engine/Transmission Test Cell
- Stryker Systems Integration Lab
- Ballistics Range
- Drop Tower
- Motion Base Technologies



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- **TARDEC's priority – Support the Fight!**
- **Our Mission is to be the full Life-Cycle engineering support & provider-of-first-choice for all DoD ground combat & ground combat support weapons & vehicle systems – today & tomorrow.**
- **Continue fostering relationships with the TACOM-LCMC, Industry & Academia.**

